

## ABSTRACT

A tape head module assembly system and method is disclosed. A first and second module holder are placed in an initial alignment with module holder ends facing each other, the module ends each holding a tape head module. A tape wrap angle between the first and second module is set by first performing a fringe alignment and then lifting a rear end of the first and second module holder a prescribed amount. A horizontal adjuster produces a rotation for the first module holder so that gaps between the first and second modules are parallel. An alignment along a longitudinal axis for the second module holder is selected and the second module is translated laterally until the second tape head module held by the second module holder is aligned with the first tape head module held by the first module holder to provide reader-opposite-writer track-to-track registration. Then, the first and second tape head modules are joined together using a joining agent in the gap between the first and second tape head modules.